

JUNE 1, 1990


VOLUME 15

HAHNEMANN CURRENT CONTENTS

GRADUATE SCHOOL



ENDEAVORS



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1990

Volume 5

HAHNEMANN CURRENT CONTENTS

Endeavors



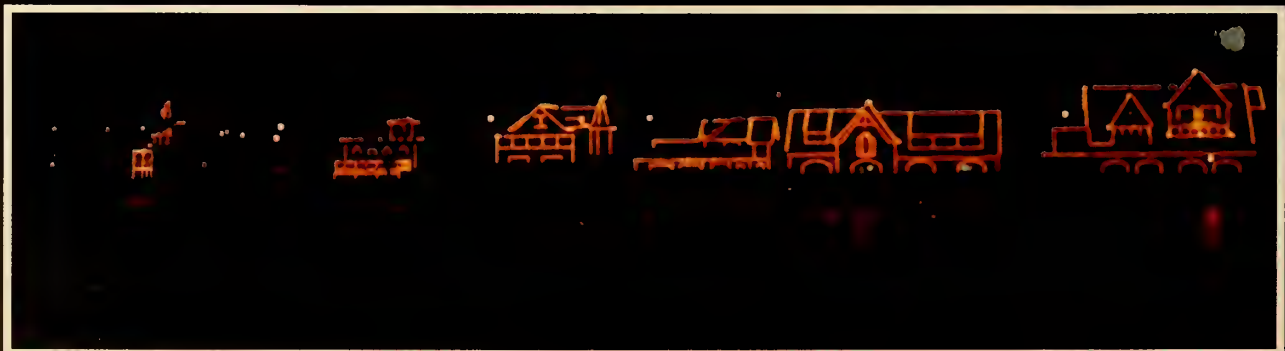
Philadelphia

MAGAZINE

*The Best Of
Hahnemann
Issue!!*



Boy graduates Grad School at 3 months of age!





Herpes V Hits South Philly!



Continued on page 10 . . .



Featured in this issue of Endeavors

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THE WALL STREET JOURNAL.

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HAHNEMANN UNIVERSITY 1990 PHILADELPHIA, PENNSYLVANIA

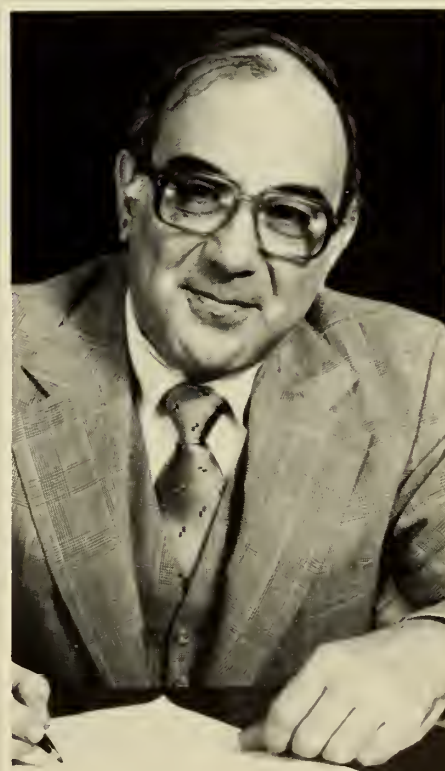
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A special thanks to all committee and program reps!



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Hahnemann Christian Fellowship



Endeavors

Those who dared . . .

Tom Howell
Lisa Sinning
Sue Whittier
Diane Mapstone
Bruce Kuo
Sue Flubacher
Brian Finnegan





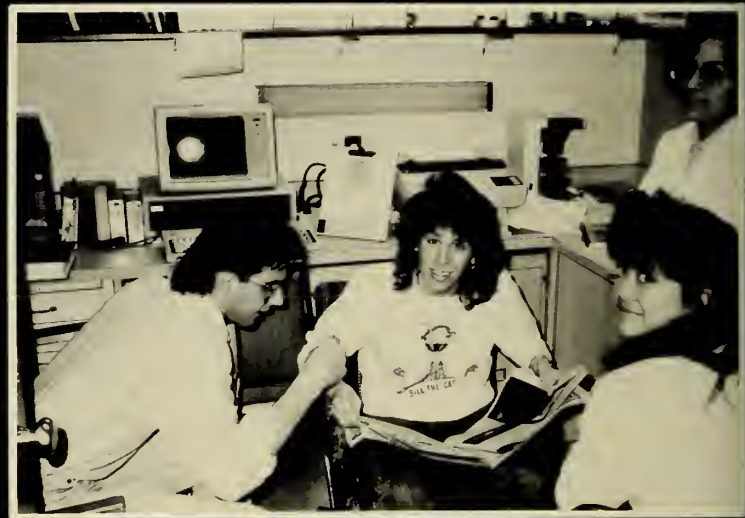


A Man, A Woman, and A Bottle:
The Inside Story





Hump vs. Helmet: A Comparative Study



Is There a Cure for the "GOD" Complex?



The Effects of Hotel Parasitism

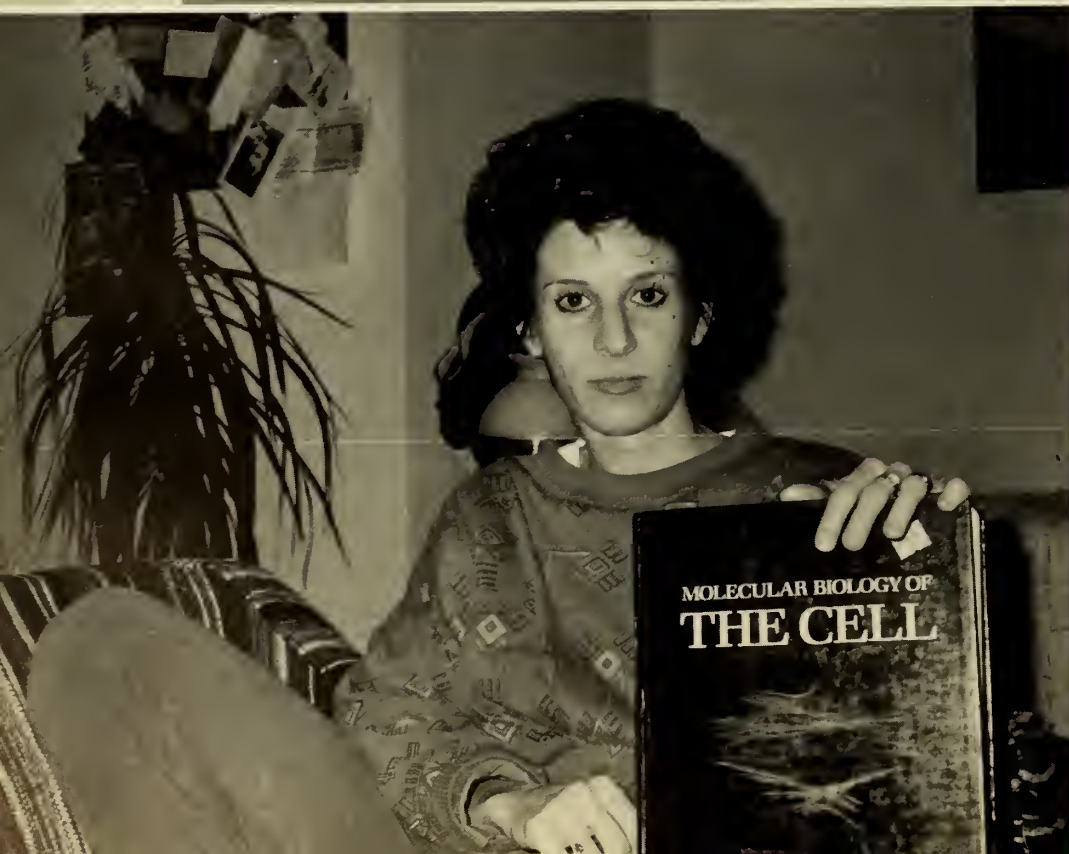
ACADEMICS



JOURNAL OF ANATOMY

VOLUME 147 DECEMBER 1980

Graduate study in Anatomy at Hahnemann University is a demanding, yet rewarding endeavor. As a student in this department, one acquires and cultivates a working knowledge in molecular and cell biology, developmental and microscopic anatomy, human gross anatomy and neuroscience. Diverse learning opportunities exist outside of the textbooks. These range from gaining proficiency in modern research technology to acquiring the art of stimulating teaching in the biological sciences. It is this latter quality that brings recognition to the Anatomy faculty from students in all three schools at Hahnemann. This "energy" for learning cannot only be "tapped" for direction and advice, but it stands as an excellent model for patterning a productive career in research and teaching.





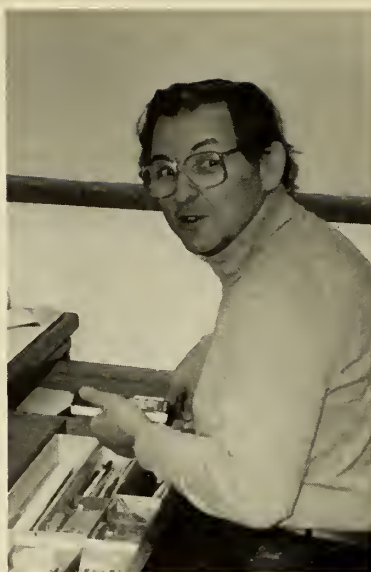
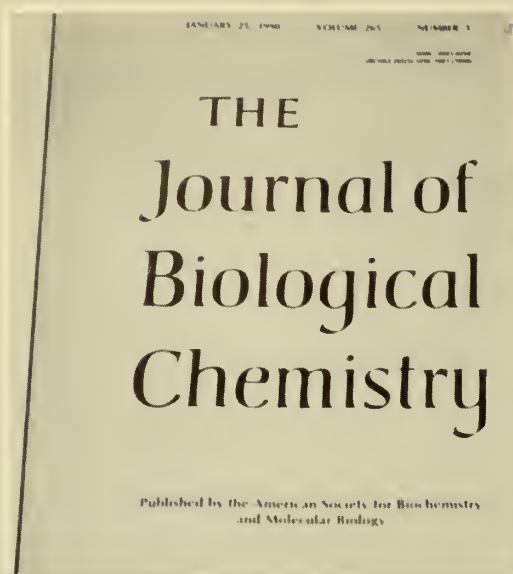
Nosiness - Is
There A
Cure?

The Surgical Separation of Siamese
Twins



Cognition and
Hand-Mouth Con-
tact:
What's the Con-
nection?





The Department of Biological Chemistry was established to further our understanding of the biochemical world. It is the job of the biochemistry graduate student to chart a course that will hopefully lead to the Ph.D., M.S., or M.M.B. degree. Fortunately, the pathway that is chosen does not only involve biochemistry courses and research. There's the annual Christmas party, featuring Dr. Baggot's "wild" tape of Christmas tunes . . . the Talking Heads, the Stones . . . well, maybe next year! While the biochemistry parties are rare events, the students do enjoy the opportunity to share non-biochemical anecdotes with the faculty . . . the arts, sports, politics. Being on the subject, what department *doesn't* have its share of titillating political intrigue? . . . computer problems, smoking problems, . . . good luck, Dr. Devlin! Of course, the biochemistry students have more important things to be concerned with - extended lab hours and even overnight stays are commonplace. Finally, when a spare moment does arise, one can always contemplate the redecoration of the English Library . . . well, maybe next year!



The Activities of Rodents in the Absence of Feline

Do male scientists really fake organisms: A Ph.D. Thesis



Results of a graduate student being held captive by lipids.



Disoriented student dances with large plastic container after inhaling a novel cocktail of organic solvents.



Satisfaction after a well-fudged experiment.

MARCH 1990

Published monthly by the
American Society for Microbiology

The Master's in Clinical Immunology and Microbiology program hones incoming students into top-class lab-jocks. Drs. Freddie Wheelock, Kayne, and Stieritz are actively involved in guiding the student's maturation. Liaison Del Malatesta, however, is the real glue that keeps these students together and on track, while helping them over the occasional hurdle. Second-year students are low-profile, since they're in the clinics feverishly acquiring practical skills, as will the first-

years when they complete classroom work. Sometimes proficiency in scientific organization, motivation, and leadership skills aren't demonstrated until the second and final year of the program. In May, it is hoped that the present first-year students will demonstrate such characteristics; the second-years anticipate either a new job or just being rescued by a letter of acceptance to medical school.



Lingual Elephantiasis: A steroid use artifact?

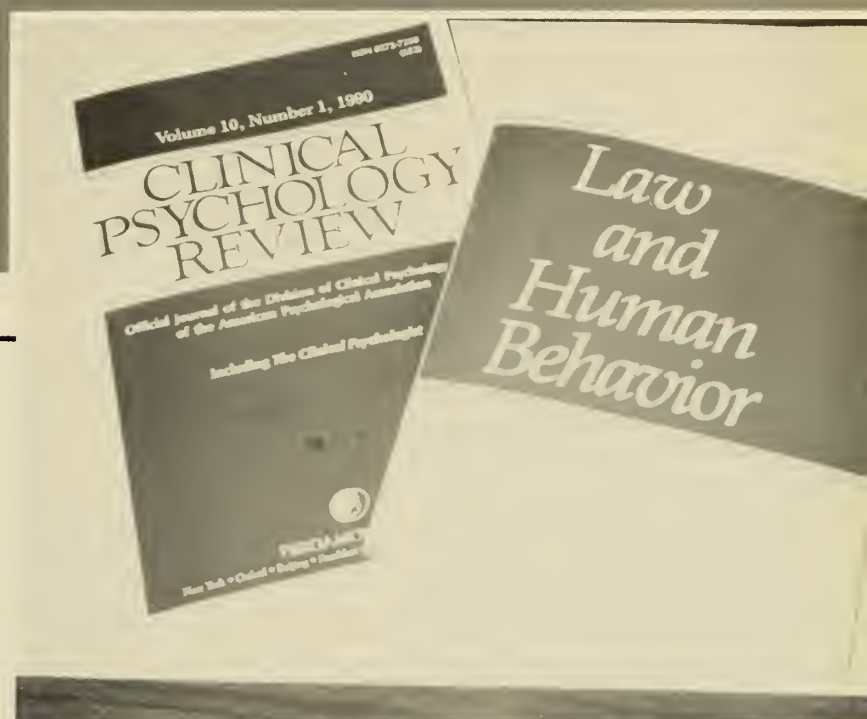


A Cosmo Survey: Do Men *Really* Like it on the Bottom?



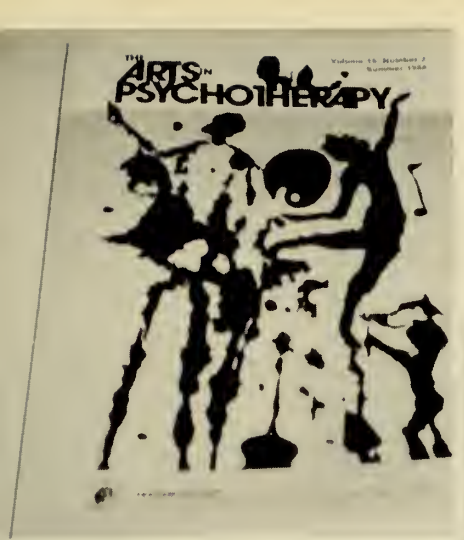
Apathy: A group effort.

The Ph.D. program in Clinical Psychology provides extensive theoretical and research training and experience to allow graduates to make a significant contribution to the field of clinical psychology. Students are trained primarily as specialists in clinical theory, clinical research and research methodology (but not in how to be cooperative when asked to take yearbook pictures). At the completion of this training, graduates of the program will have the skills necessary to initiate, conduct and evaluate independent research on clinical problems.



The Law-Psychology program is based on the idea that legal issues related to mental health often involve questions that are psychological in nature, calling for an integration of psychological and legal knowledge. The program is designed to train lawyer - clinical psychologists to integrate the two fields and thus help our society understand, evaluate and correct various mental health problems. This program leads to the awarding of the Juris Doctor (J.D.) degree by the School of Law of Villanova University and the Doctor of Philosophy (Ph.D.) degree, with a specialty in clinical psychology, by Hahnemann University.



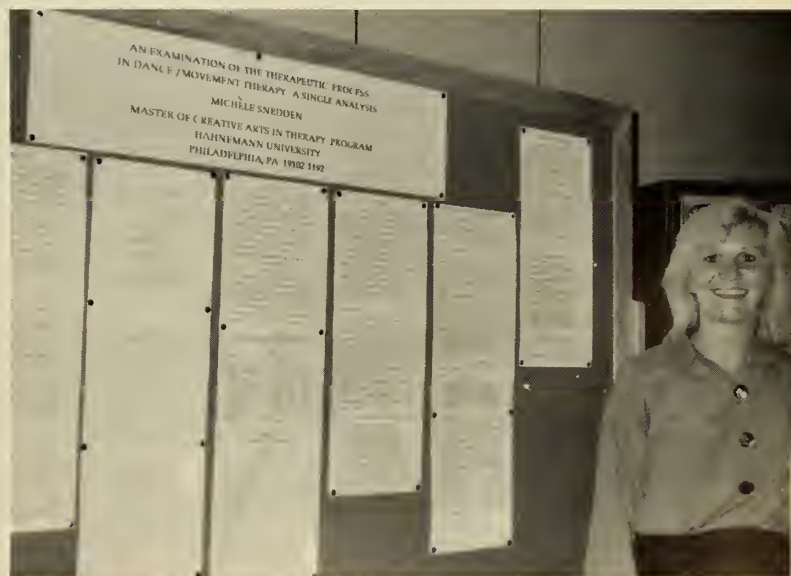


The Master's Program in Creative Arts in Therapy is a demanding program. Students spend many hours in classes and in clinical settings, focusing on their respective disciplines of art, music or movement therapy. The first year's training concentrates on theory and practice with children and adults. Second-year students choose

to work with children or adults in a specialized setting and perform research and write a thesis on that specialty.



A study of motionlessness in graduate students.







Feeling like your classes are overcrowded? Just not satisfied with the student to instructor ratio? Well, have we got the cure for you! Our blooming yet humble graduate program is on its newborn legs, but don't worry: Having to climb seven flights of stairs every day will soon have those legs in good shape. You can either do that or grow old waiting for the elevator to take you to the penthouse of the SHSH building.

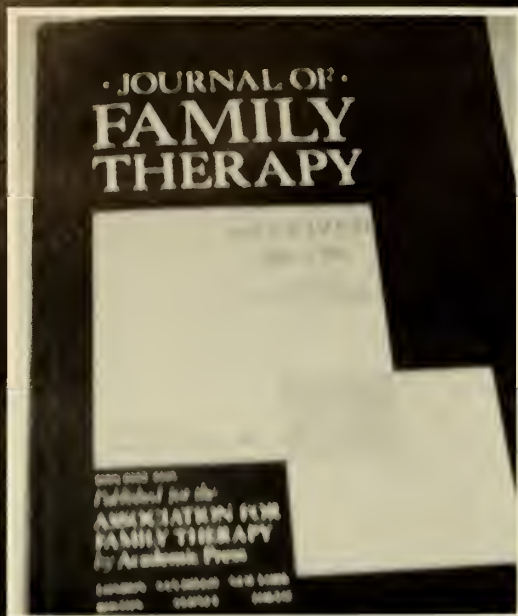
The EMS graduate program gives you a little bit of everything. We've got your basic research, your finance (eventually), your bells, lights and whistles, your lessons in politics, your adult education, all in the comfort of your typical classroom setting, wherever that may be.

What's that? Say you're interested in

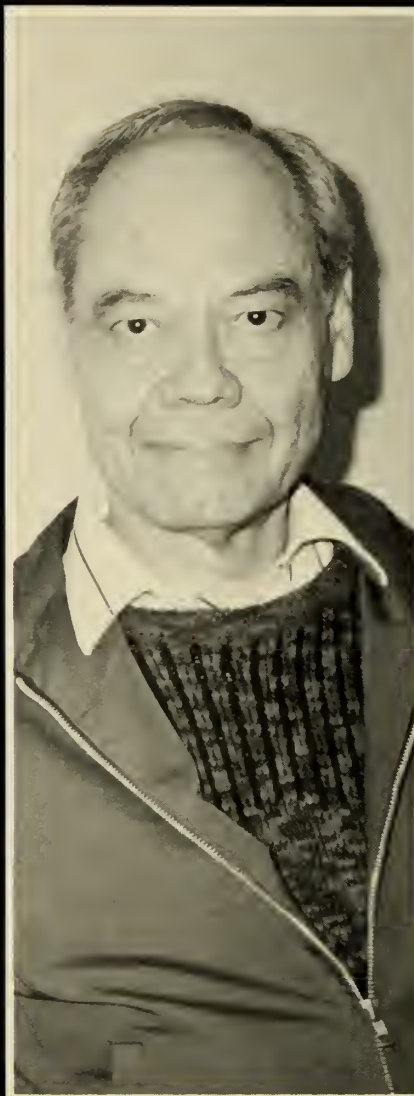
research? Well, have we got some hum-dingers for you! For example, we're trying to find life on the other side of the Delaware, Physician Assistants in an ambulance, anywhere would be nice, just please let us know about it. And last, but not least, we're trying to figure out why people quit jobs where they don't get paid for working. We think we know, but it'll take another month or so for us to find Mr. Smirnov.

Well, if that doesn't get your blood to boiling, maybe someday we'll tell you how to handle a train wreck during rush hour, how to perform a windshield survey (we have an expert in the field), and maybe even explain what not to do with pension statements or your love life! And how can you get 'em back on the farm after they've seen Phillee?





This two-year program leading to a Master of Family Therapy degree provides the student with an intensive, specialized experience in the classroom and in the clinic. Applicants from a wide range of backgrounds are gaining a firm theoretical and practical base for becoming a competent family therapist. The learning process consists of conceptual learning about family therapy, supervised clinical learning, and contextual learning about a variety of professional settings in which family therapy will be a key feature. As can be seen by the average age of the program's students (38), a career in family therapy is usually begun in mid-life. Perhaps it is the age and maturity of these students which makes them perfect for a career in this discipline, (but perhaps a little indifferent to other student activities).





Future family therapists frozen motionless while discussing the dynamics of beginning a new career.



The moment we enter the world, each of us becomes part of a group, and during the course of our lifetime, we will be a part of multiple groups, both by choice and involuntarily. Our individual style of behaving in a group and how we experience the other members largely reflects that first experience with our family. As a skilled observer, the graduate of the Master of Science program in Group Process and Group Psychotherapy will be prepared to diagnose group dysfunction on an organizational level and provide effective group leadership and interpersonal therapy in a clinical setting. As a class, we've both struggled and rejoiced with each stage of growth (remember when we moved everywhere as a group?) With respectful guidance and individual caring, Dr. Vaccaro ("make a statement!"), Mr. Ulitsky and Dr. Jasnoff challenged our minds and emotions from very early on. Now, two years (and lots of issues) later, we hardly seem the same, but better! The power of the group has increased our autonomy!

vide effective group leadership and interpersonal therapy in a clinical setting. As a class, we've both struggled and rejoiced with each stage of growth (remember when we moved everywhere as a group?) With respectful guidance and individual caring, Dr. Vaccaro ("make a statement!"), Mr. Ulitsky and Dr. Jasnoff challenged our minds and emotions from very early on. Now, two years (and lots of issues) later, we hardly seem the same, but better! The power of the group has increased our autonomy!

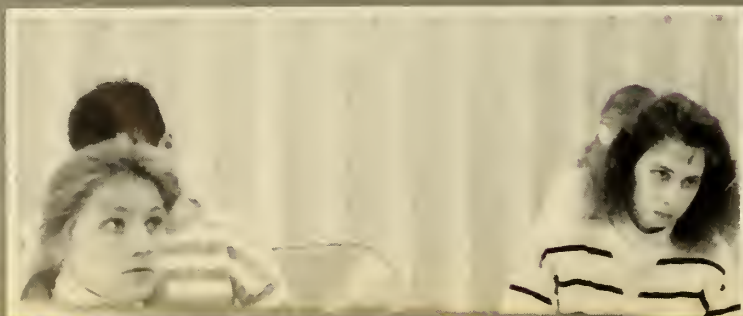




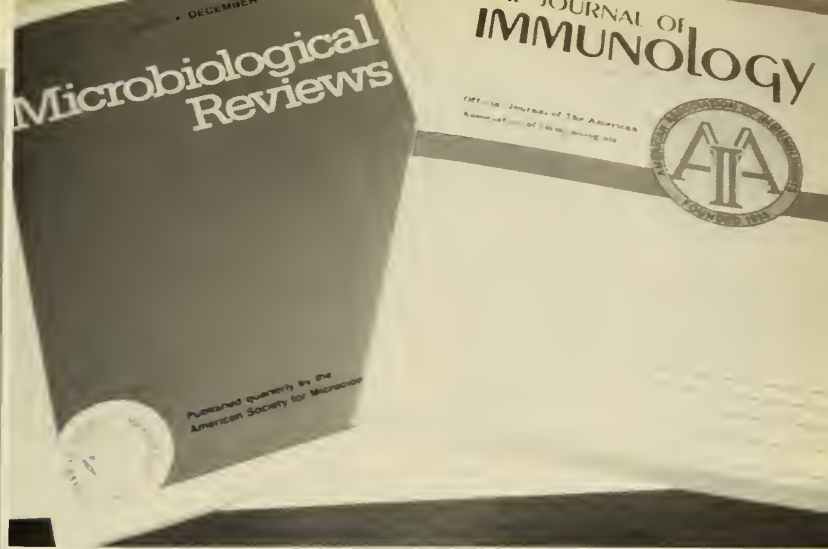
Laboratory Animal Science



Our group is definitely one of diversity, yet we all share a common interest. The field of Animal Health Care is an expanding one, in both private practice and research; we are all interested in maintaining the excellence of work in this field, but in different ways. Some foresee a career in veterinary medicine, while others plan on supervising a research animal facility, and a few will be pursuing medical school or some form of research. Combined, proper animal care is important to us within every situation. Throughout the program, we have learned about the many aspects of animal care, from animal biology to proper facilitation, preventative medicine and management of all types: The differing topics continue to make the program interesting. Due to the continual need for both animal and human research and health care, we feel this program will allow us to further contribute to and support its complex and sophisticated day-to-day needs.



The department of Microbiology and Immunology engages in a variety of research projects. Among the more well-known fields under study are malarial immunology, *Neisseria gonorrhoeae*, tumor immunology, *Bacillus* sporulation, a rat model of multiple sclerosis, and Cocksackievirus pathology and receptor isolation. However, the less-publicized research endeavors are what makes for invigorating discussions in the Moat Lounge. The following studies have been undertaken in recent years: The effect of lab location on the probability of pregnancy, utilization of younger men versus retin-A for restoration of lost youth, the role of molecular genetics in special effects cosmetology, the rice diet versus Slim Fast: Pros and cons, the effect of Wisconsin translocation on Pub economics, the role of happy hour on the longevity of graduate students, the direct correlation between nacho quality and distance travelled, and the Buckwads: Myth or reality? These lesser-known studies may not win any Nobel Prizes, but they certainly make life for the faculty, students and staff *much* more interesting.



Unusual longevity: Over 130 years at Hahnemann!





Non-specific
"phosfemalation"
of engaged men.





The obvious beneficial effects of a positive horoscope reading on food-ingesting graduate students.

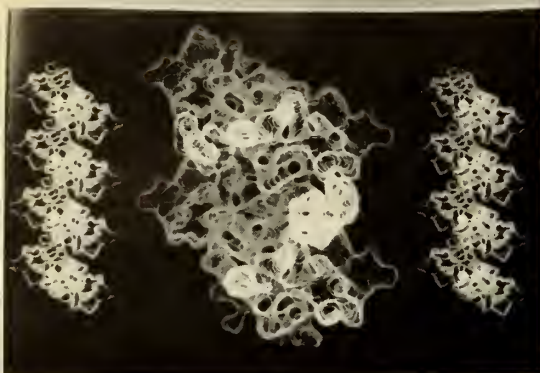


Isolation and characterization of a novel tumor-forming marlariavirus receptor.



A case study on predictability: Knowing where this person will be on Friday at 5:00 (and what will be in her hand).





ACADEMIC PRESS

Harvard Press, Transworld Publishers
JMBR 211 4 209 1010 ISSN 0022-284X

Repeat, L.T., Glycoprotein, G.A., El, P.O., Vee, E.N. and L.T. Repeat. Department of Anatomy-Anesthesiology-Biochemistry-Microbiology-Immunology-Neoplastic Diseases-Pathology-Pharmacology-Radiation Sciences. Hahnemann University, Phila., PA 19102 The Molecular Case History of a Nascent Program Carrying a Graduate Student Beyond Term Studies to date have shown that graduate student gestation periods vary from 4 to 7 years. Transcriptional errors during trimesters I (lit review), II (NIH grant proposal), or III (thesis) are thought to be mechanisms of regulation in the graduate student developmental process. Acidic buffer conditions, stringent washes, and extra-cellular signaling have each contributed to first trimester miscarriages (A loss we all regret and wish them good luck!). A radical yet medically necessary procedure was performed to a first trimester student, transferring him to a surrogate institution (Stoneybrook). Phosphodiester Treasury Bond (PTB) strains (rates which are set by the Graduate Federal Reserve Board) may cause localized kinks in our programmed growth pattern. *In vitro* DNA run-on experiments will be performed to address this issue. Sequence similarity studies show an evolutionary diversity among students and may shed light on whether Molecular Drive, Lamarkian Theory, Darwinian Selection, or simply Lamaze classes play an integral role in successful delivery of a graduate student to a lucrative post-doc-cradle. Despite different reading frames of thought, it is clear that our dual Retroviral Fathers can "Just do it" equally well, as evidenced by a well-developing program. (No teratocarcinomas are present, as suggested by the absence of aberrant hair or teeth in individuals). After all hybridized blots are put up for exposure, and cloned cells are fed and tucked into their incubator, a Samuel Adams is in order, and a toast to Ben and his success in such prolific experimentation.



Large-scale selection for conditional-lethal mutants.



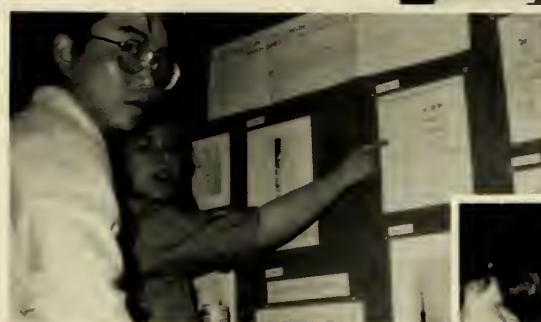
A laboratory hostage in the shadows of Liberties.



WAIT, WAIT, AN IDEA . . .



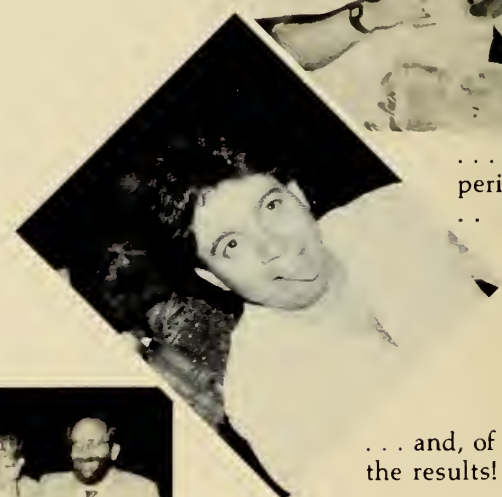
. . . the approach . . .



. . . the subversive plan . . .



. . . the experiment . . .



. . . and, of course, the results!





The Hubbell can see stars!



Human binding proteins do exist.



Technology must make a better coffee!



D.G. & Co. optimizes detection sensitivity.



Pranksters are susceptible to smile virus 40.



Malarial cure is localized to an aisle of a literary jungle.



Write 2 papers and you'll be called a Ph.D. by morning.



Who says HIV research can't be fun?



The generation of allelic variation by pipetteman.



The Hahnemann MB-B-1 automated sequencer.



Dr. V=IR builds electronic oocyte dispenser.



A future study group?

The MST Program, under the directorship of E.T. Angelakos, Ph.D, M.D., is a Graduate School program designed for students interested in careers in health sciences who wish to extend their training and knowledge of basic medical sciences in a medical school setting. Although considered a graduate program, the first-year curriculum primarily consists of courses taken with the medical school class. From here, students have a wide variety of options, yet most sentiments lie with attending medical school (as almost any MST will tell you - correct me if I'm wrong). Like they say, "Old MST's never die - they just get into Med School."

Hahnemann University
School of Medicine
Admissions Office
M.S. 442
Broad & Vine
Philadelphia, PA 19102-1182

**SUPPLEMENTAL
INFORMATION**
Application for Class
Entering 1990

1. Applicant's Name _____ SS # _____
College Undergraduate _____
Graduate _____
Professional _____

2. If a member of your family (parent, grandparent, or sibling) is a graduate of the Hahnemann University School of Medicine, give that appropriate information (Do not list relatives other than parent, grandparent, or sibling)
Name _____ Relationship _____ Year M.D. Received _____

3. If you are not currently enrolled in a degree-granting undergraduate or graduate program, please indicate what you have been doing since you finished school _____

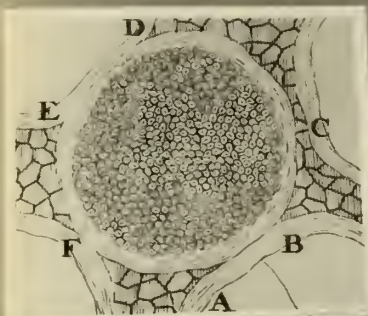
4. Have you applied previously for admission to the Hahnemann University School of Medicine? ☐ Yes ☐ No
If yes, for which year's entering class? 19 _____
Were you interviewed at Hahnemann in any of those years? ☐ Yes ☐ No

Form #2148 (Rev. 7-25-88) (turn over)



NEUROSCIENCE

An International Journal under the editorial direction of IBCO



EFFECTS OF A NEW NEUROSCIENCE GRADUATE PROGRAM ON THE PRESTIGE OF HAHNEMANN UNIVERSITY. BA Waterhose and TM Fish, Neuroscience Program, Hahnemann Univ., Phila., PA 19102.

During the past 20 years there has been explosive growth of the neurosciences. One of the indices of the rapid development of this interdisciplinary field has been the rise of many neuroscience graduate programs on numerous campuses nationwide. Recognizing the need to maintain status among its sister institutions Penn, Hopkins, and Yale, which already have highly visible neuroscience programs, Hahnemann University has established its own Neuroscience Graduate Program which is now in its third year of existence. Already, the accolades for this burgeoning program are astounding. Legendary neurophysiologist and Noble laureate Sir John Eccles was quoted in the Peoria Gazette as saying, "with major players like Aston-Martin, Chapman and Yackawhat's-her-name, their program is headed for the top with a bullet." According to School of Medicine Dean, Harry Wollman, the formula for achieving such notable success in so short a time is simple: Recruit a number of young investigators to join the existing mix of Hahnemann neuroscientists, add the support of a graduate school dean and the collective wisdom of three departmental chairmen and spiritual guidance from a wizard of Mediterranean descent, Obi Wan S

---, and the rest is history. Since its inception, the program has been besieged with applications, causing administrator Robin Appel to remark, "Who's idea was this anyway?" Second-year student, Jeff Utz, who is typical of the current crop of student recruits, turned down offers from Stanford, Harvard, MIT and a tryout with the Yankees to come to Hahnemann. While no one can predict the future, Hahnemann President Iqbal Paroo has pointed out at numerous press conferences that the Neuroscience Graduate Program seems to be coming into its own at a time when several other major world events such as the crumbling of the Berlin Wall, perestroika and the Sixers winning the Atlantic Division title are ushering us in to the twenty-first century.





Analysis of maturational stimuli in graduate students.



A neurological profile of the average incoming GSS officer.



B-protein activity and alcohol consumption: Is there a correlation?

PATH MORTEMES

I've finally figured out how to be a chairman: You have to know karate, magic, and hypnosis. Being paranoid is also a useful skill.

To me, our world exists behind the row of laboratory doors. To a stranger, we probably look like the back table at Doc Watson's, dressed in jeans and sneakers: That's us, the grad students and research assistants (Maggie, Barbara, Ian). We only wear white coats on Grad School Day!

It's an interesting place to work: Every day, the mailman brings little packages of body parts for the surgical pathologists. As a hobby, the guy who runs the clinical lab does autopsies on 3,000-year-old Egyptians. And the chairman is secretly a stand-up comedian whose agent is begging him to leave Hahnemann for more lucrative Atlantic City gigs.



Family Business



Shogun demonstrates ancient art of cutting through science.

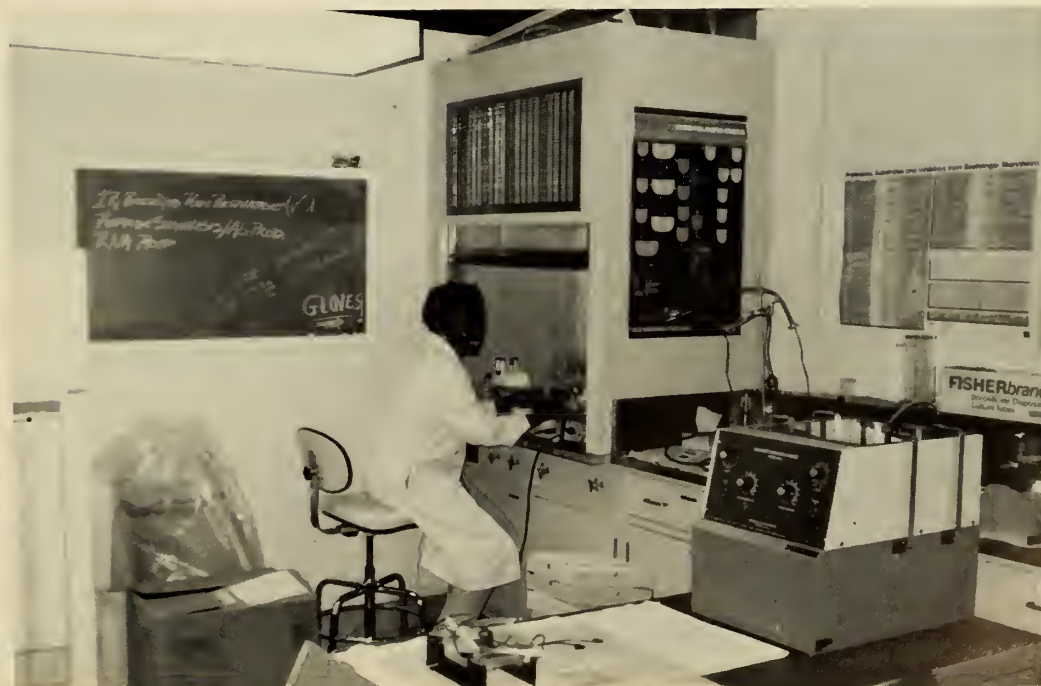
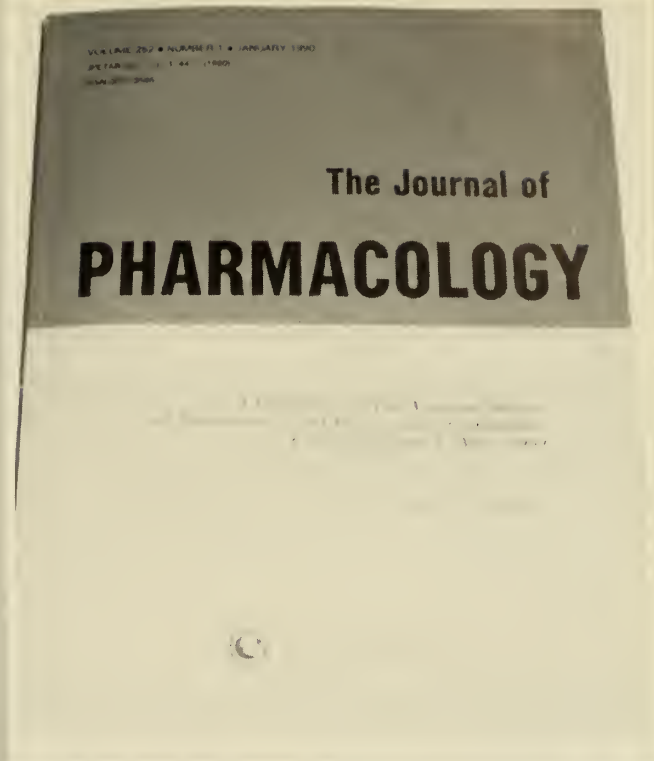


A study of titanium rotor users is pellet-ed.



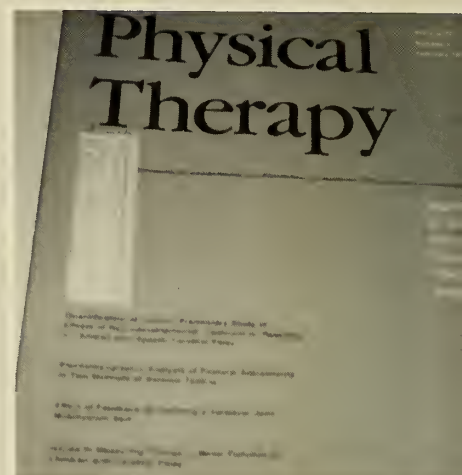
Grad student develops an alternative scanning tunnel microscope.

The Ph.D. program in Pharmacology trains individuals to perform independent research as well as to teach pharmacology either in general or specialized courses. Areas of specialization include cardiovascular, autonomic nervous system, biochemical, human and neuropharmacology, toxicology and drug abuse research. The M.S. program provides students with a broad understanding of pharmacology and the techniques necessary for successful research, and for some, it may serve as a doctoral prerequisite. The department also confers a Master of Experimental Pharmacology degree. In this course of study, personnel from area pharmaceutical companies are trained in relevant pharmacological aspects so that they may attain higher career positions and more autonomy in their respective companies. In addition to these academic endeavors, the department is also the force behind Hahnemann's Substance Abuse Education program (chaired by Dr. John DiGregorio). And chances are, the charming mixologist you met on Grad School Day can usually be found somewhere on the 6th floor of NCB.



The purpose of these pages is a dedication to the Class of 1990. Will we ever forget Jon's "Quote of the Day" or Bob's "Vanity Fairy"? We laughed, we struggled, we cried, and through it all we learned what it takes to be a physical therapist. We came together over two years ago and learned to work hard at anatomy, kinesiology, ortho, neuro, and at all the group projects, including our research proposals. We learned to play hard at the YMCA, at volleyball, darts, pool, and at Doc's and the Irish Pub. Now that we have scattered to far and near, remember always how we touched each other's lives. Congratulations to all the graduates in the Entry Level Masters, Advanced Masters, and Doctoral programs. (Howell TM: The class of 1990. Endeavors 5:40-43, 1990)

Key Words: Cadaver lab, Competencies, Group projects, Affiliations, Research proposals, Comprehensive exam



THE CLASS OF 1990



Insert tab A into slot B and . . .



Members of the faculty (and Frank!)

T Howell MPT, Staff Therapist, was a student in the Entry Level Masters program at Hahnemann University at the time this layout was completed.

This layout was submitted on May 21, 1990; was with the editor for a couple of hours for revision; and was accepted May 22, 1990.

Anatomy Dancing Doc's Fountains Birthdays



Extra credit at Doc's . . . there's Mary and Mike, where's Dr. Haroian?



Kines
Message
Posture
Transfers
Modalities
Hanz and
Franz
Tequila
Neuro
Electro

Ken and shoe-drinking: A legend is born



Mr. A Nell Wink. Accessibility projects-June 1989

Table 1. First year students



A Physical Therapist evaluates physical disabilities and plans,

Table 2. Post-Research luncheon



Great smile, Ann!



The Good, The Bad, the The Ugly



Table 3. First year students-The Sequel



Bring on the men!





Post-comps celebration



John and Yoko? -No, it's Ron and Jeff



The House That Helped . . . revisited



Table 4. Comp-Post party (table missing)



Sweatshirts Research P & O Electives Graduation



References

- 1 Tomsic E, Brock D, Sogolow L, Fehrenbach C, Jupina V, Sites J: The Secret Lives of the Californians: The Untold Story. New York, Penguin Books, 1990
- 2 Bernstein L: How to meet people you know everywhere you go (or how I hiked around the world). National Geographic 104:150-157, 1990

health professionals, researchers, scientists, and most of all, friends

RECEIVED

JAN 16 1990

LIBRARY
DARTMOUTH UNIVERSITY

- 1 Slow Potentials of the Cerebral Cortex and Behavior
*Niels Barhaumer, Thomas Elbert, Anthony G. M. Canavan,
and Brigitte Rockstroh*
- 43 Role of Amino Acid Transport and Countertransport in Nutrition
and Metabolism
Haiyue N. Christensen
- 79 Cell Mechanisms of Proximal Tubule Acidification
Robert J. Alpern
- 115 Role of Phosphoinositides in Transmembrane Signaling
Rajendra S. Rana and Lowell E. Holm
- 165 Quantal Analysis of Synaptic Potentials in Neurons of the Central
Nervous System
Stephen Redman
- 199 Chemical Information Processing in the Olfactory System of Insects
Claudine Masson and Hanna Mustaparta

PUBLISHED BY THE AMERICAN PHYSIOLOGICAL SOCIETY

First, there was Lite. Then there was consolidation, forming the Department of Physiology and Biophysics (both Bud and Miller, of course). The Dept. of Physiology (on the 11th floor of NCB) and Biophysics (relegated to part of the nebulous world of the SHSH building) is devoted to understanding life as we know it - for some of us, at least. The students are varied and diverse, diverging along their separate paths of particular interest, yet remaining cohesive yet solitary in their attempts to attain the ultimate goal - knowledge (or at very least the symbol thereof, namely, a plaque on the wall and letters after their names). Although various attempts to have social interest group interactions on Friday afternoons on the 11th floor have been thwarted by regulations, a phenomenon is occurring whereby some unknown chaotic force is attracting unwary individuals and propelling them across the street, "a very moving experience." While observing demonstrations of reflective physics, one can discuss the "Domino Theory" as applied to Eastern Europe or pizza, the absolute wonderfulness of France, the women of Brazil, soccer, dancing the lambada, exotic food or a variety of subjects of life in general at Doc's. Monday, it's back to servitude, with the students drudging away, but it's not that bad . . . after all, as you grow older, it only gets worse!

Keywords: Champagne, chocolate cake, cookies and parties!!!



Ph.D = Push Here, Dummy!



The Department of Radiation Oncology and Nuclear Medicine offers a graduate program leading to the M.S. or Ph.D. degree. Emphasis is placed on developing a solid theoretical background in the radiation sciences, combined with multidisciplinary training in laboratory research. Students are "exposed" to both diagnostic and therapeutic applications of ionizing radiation and radioactive materials. Specialized areas of study include radiation biology, radiological physics, and radiopharmaceutical science. Knowledge and practice of the current research methodology in these areas will entitle the student to be designated as a "hot" commodity in the field of radiation sciences.



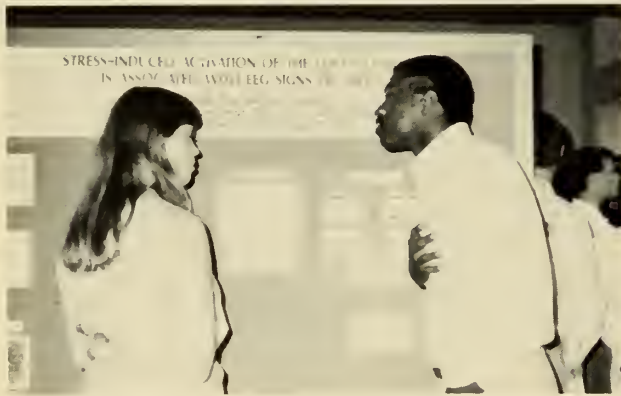
Grad School Day 1990

Proceedings of the
HAHNEMANN UNIVERSITY
Graduate Research Symposium

Volume 5 Number 1

APRIL, 1990

Cocktails, dinner and dancing at the Franklin Institute . . . this is a day for us graduate students to throw off those lab coats and emerge from our laboratories to interact with our fellow students. Whether it's sharing our research endeavors through poster or platform presentations or dancing the lambada at the reception (or climbing on good old Ben), Grad School Day is definitely an educational experience for us all!



The persistent denial of male students in the presence of un-lashed female undergrads.

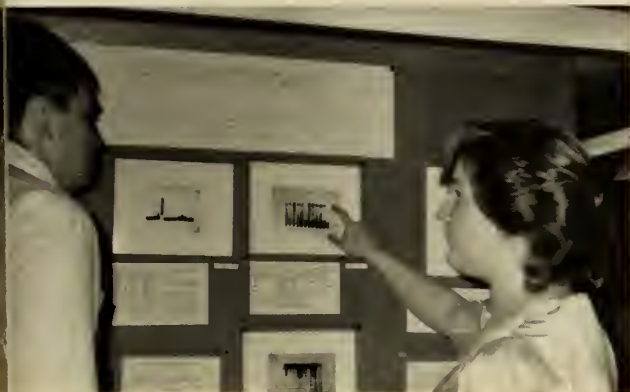


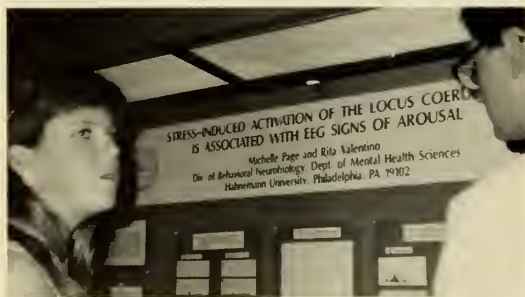
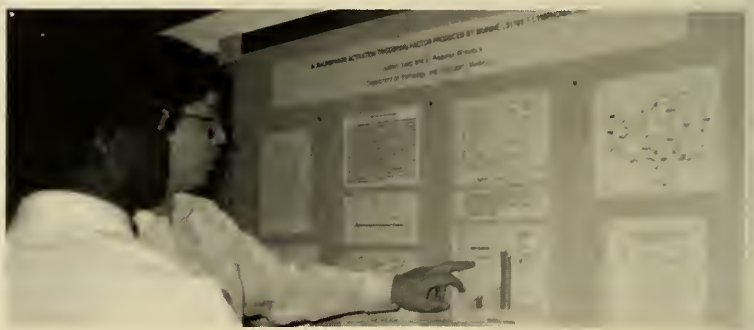
The discovery and characterization of anti-gravity machine by Chinese in the Western World.





The repetitive nature of consumption while in the presence of Ben and his 96 illegitimate children.







Wow! What a roach!



The G.S.S. - past and present.









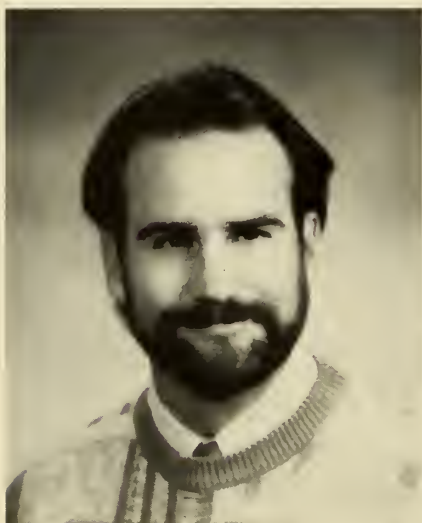
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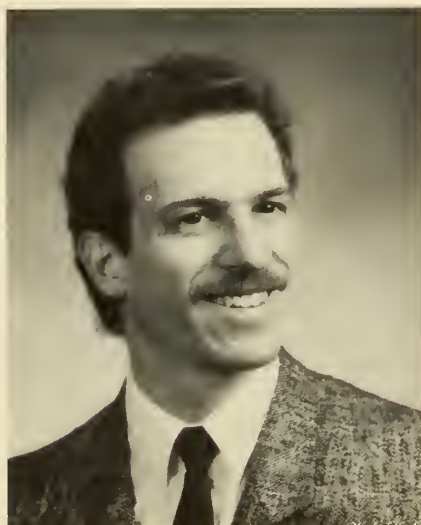
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Here's to orientation!



"Miss H.U. 1990"





Everything from Demon Broccoli from Hell to Teenage
Mutant Ninja Anything to Earth Day to Enemas!



Bed Race 1990





A "Domestic Goddess Drag Queen" (in leather boots) . . . Who would have guessed?!

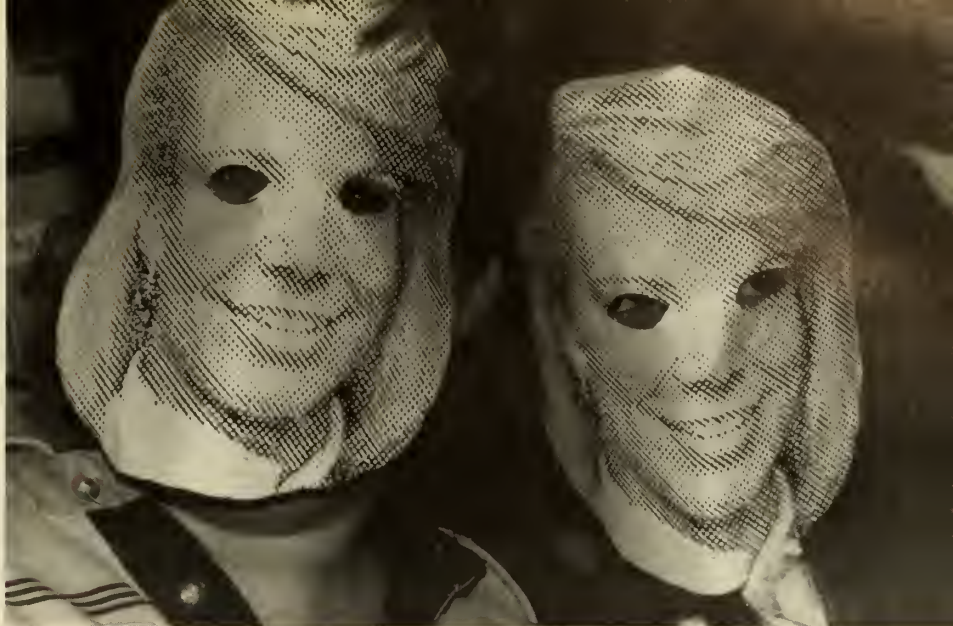


Would you call this an invitation?



Hey, where's the money?





Ignore them, maybe they'll go away!



Hmmm - Where's Sheryl's OTHER hand?



And every year there's a stupid picture of me with my eyes closed!



The Approach . . .



I don't think Peter's thinking with his hands right now!



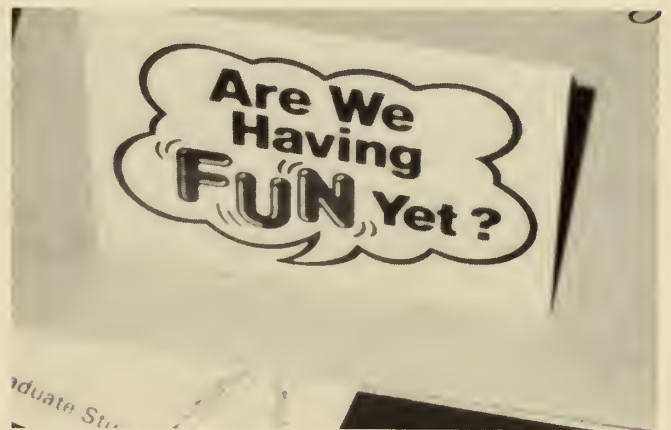
Definite interest - there's the hand!



Hey! When's my turn?

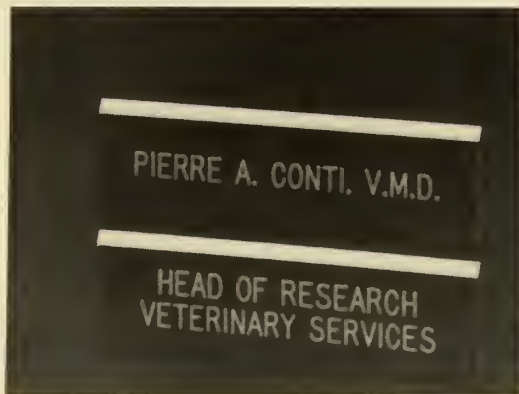


But Vandana, that was LAST year's joke!





A thorn between two roses?



NEXT!



I love when the bubbles go up my nose!



Peter and #1056 - What was her name?



"Stan" Vader - May the force be with you!



Want some cake, little boy?





Whattymeant I'm not graduating?



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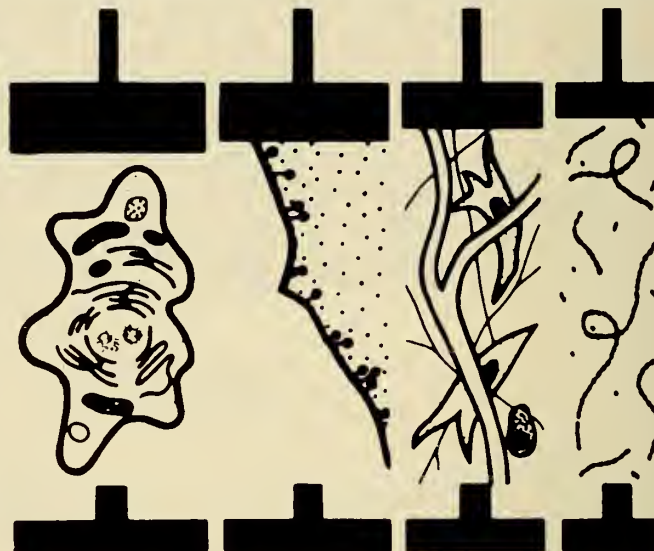
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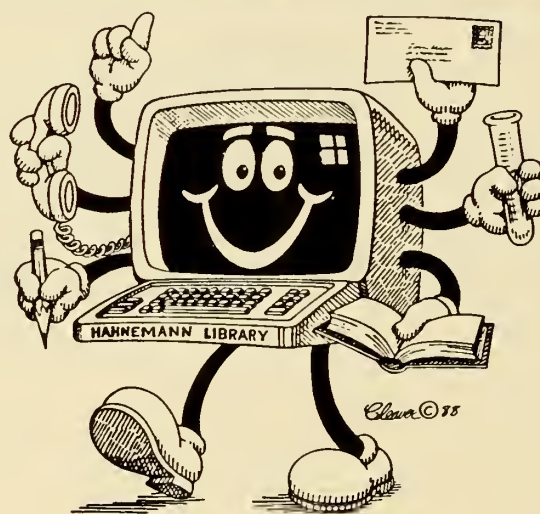
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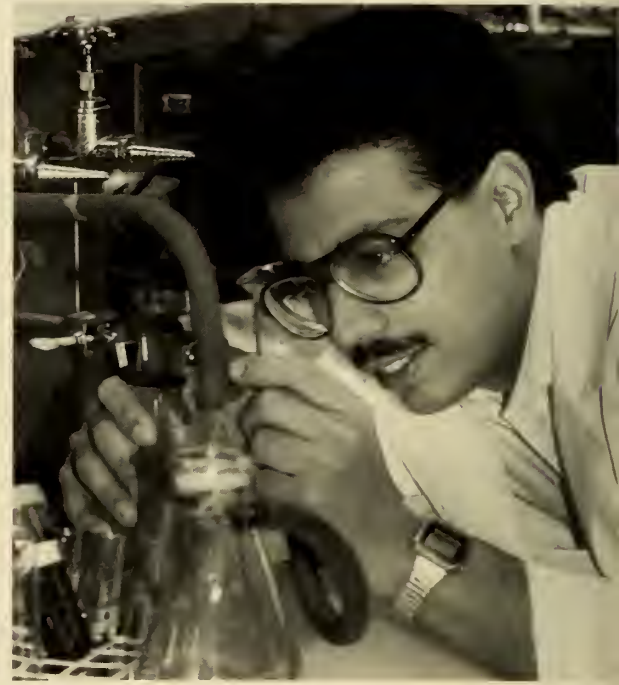
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It is not enough that you should understand about applied science in order that your work may increase man's blessings. Concern for man himself and his fate must always form the chief interest of all technical endeavors in order that the creations of our mind shall be a blessing and not a curse to mankind. Never forget this in the midst of your diagrams and equations.

Albert Einstein



We hope that you will continue to observe, study and experiment . . . that is how you will help mankind.

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We, the staff of the 1990 *Endeavors* yearbook would like to thank all of the many people who contributed their pictures, time, creative ideas and advertisements towards this publication - and especially Phil Klein, our rep. Early problems in launching this project jeopardized its existence, yet through repeated determination, last-minute rush jobs, Phil's patience, and a few pizzas, the 1990 book was patched together. It's always challenging times like these that the people you can count on step forward from the crowd and deliver: It just happened that this year we had to search a bit harder for such people. Now that all's been said and done (Hurray!), we can finally reflect on our efforts - we hope you enjoy this yearbook as much as we did assembling it. Keep your eyes open for next year's sequel (a smoother ride, we hope), and thanks, again, to everyone who made it possible!

*Lisa Sinning, Editor
Brian Finnegan
Sue Flubacher
Tom Howell
Bruce Kuo
Diane Mapstone
Sue Whittier*

PS (W) - About the picture on page 70 - Don't have a cow, man!







